

Date:  
User:Wednesday, 3/8/2006 10:38:11 AM  
Kim Johnston

## Process Sheet

<b>Customer</b> :	CU-DAR001 Dart Helicopters Services	<b>Drawing Name</b> :	SHUT-OFF VALVE SHAFT
<b>Job Number</b> :	26115		
<b>Estimate Number</b> :	12170		
<b>P.O. Number</b> :	N/A	<b>Part Number</b> :	D34703
<b>This Issue</b> :	3/8/2006	<b>Drawing Number</b> :	D3470 REV.A
<b>Prsht Rev.</b> :	NC	<b>Project Number</b> :	N/A
<b>First Issue</b> :	N/A	<b>Drawing Revision</b> :	A
<b>Previous Run</b> :	N/A	<b>Material</b> :	N/A
	<b>Type</b> :	<b>Due Date</b> :	3/31/2006
	PURCHASED PARTS	<b>Qty:</b>	10
<b>Written By</b> :	SEE COMMENT BELOW	<b>Um:</b>	Each
<b>Checked &amp; Approved By</b> :	06.03.08		
<b>Comment</b> :	est rev A 06.02.03 new issue EC		

## Additional Product

Job Number:



Seq. #: Machine Or Operation: Description :

1.0 OUTSIDE SERVICE OUTSIDE SERVICES



Comment: Sub-Contracting OUTSIDE SERVICES

Issue P/O: 00000768

Email or Ship DXF file to vendor

Laser Cut per Dwg D3470 flat pattern D3470-3F

Material release note required

2.0 D34703F ARM

Comment: Qty.: 1.0000 Each(s)/Unit Total: 6.0000 Each(s)  
ARM

3.0 PACKAGING 1 PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Receive &amp; Inspect For Transit Damage

Ensure material certification is attached

4.0 QC6 DIMENSIONAL CHECK



Comment: DIMENSIONAL CHECK

5.0 SMALL FAB 1 SMALL &amp; MEDIUM FAB RESOURCE 1



Comment: SMALL &amp; MEDIUM FAB RESOURCE 1

Deburr if necessary.

**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes ☒ No ☐ DQA: ☒ Date: 06/03/00  
 QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

Date: Wednesday, 3/8/2006 10:38:12 AM  
User: Kim Johnston

## Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: SHUT-OFF VALVE SHAFT

Job Number: 26115

Part Number: D34703

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

Dec 03 29

(12)

7.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: ST439

C 206/03/29

(2)

8.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

SP 06/03/30

(2)

Job Completion



C Dec 03 29

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector



Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

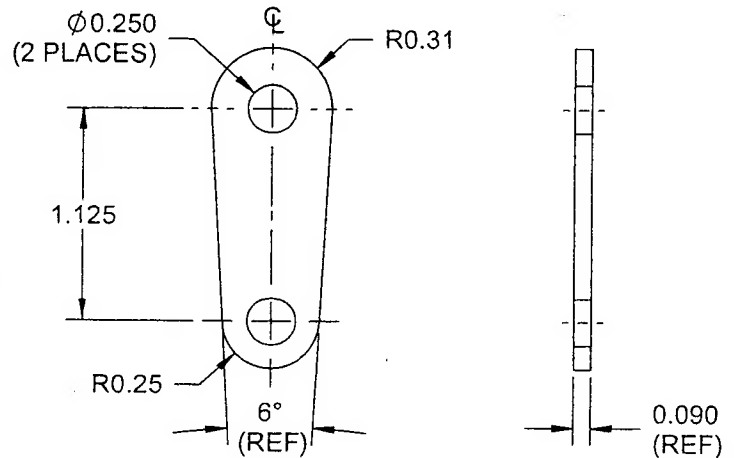
NOTE: Date & initial all entries

PRELIMINARY ISSUE

DESIGN 	DRAWN BY 	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO. <b>D3470</b>	REV. A SHEET 3 OF 4
DATE <b>05.12.14</b>		TITLE <b>SHUT-OFF VALVE SHAFT</b>	SCALE 1:1

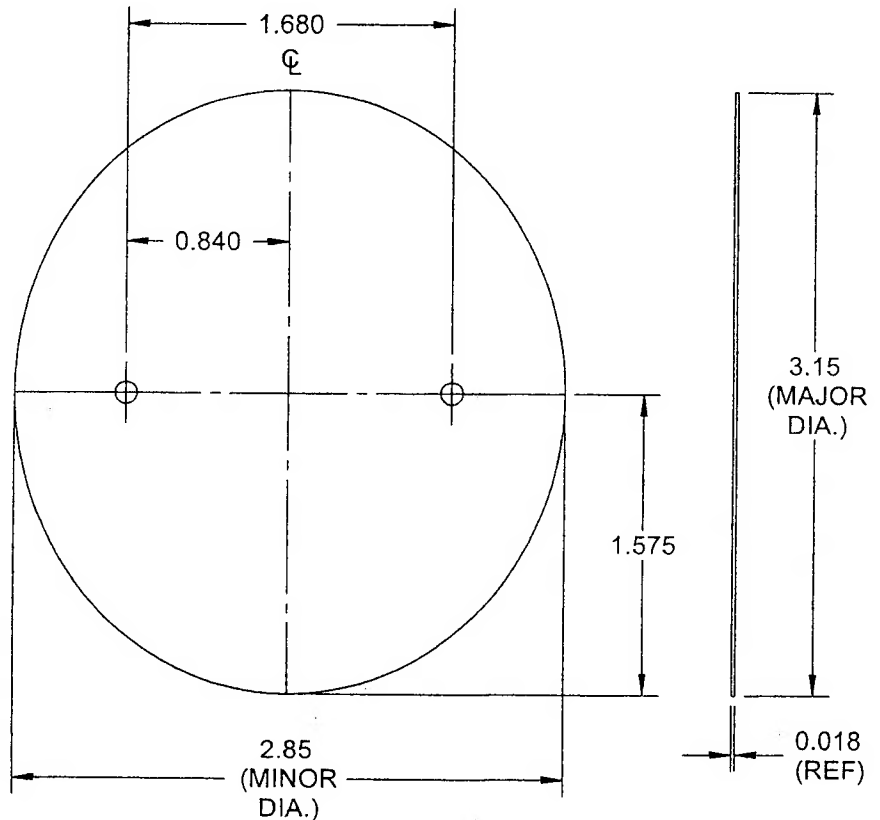
### D3470-3 ARM

- 1) MATERIAL: AISI 304/316 SS SHEET PER MIL-S-5019 (ANNEALED) 2B FINISH 13 GAUGE SS (0.090 THICK) (REF. DART SPEC. M304S26GA)
- 2) FINISH: NONE.



### D3470-5 PLATE VALVE

- 1) MATERIAL: AISI 304/316 SS SHEET PER MIL-S-5019 (ANNEALED) 2B FINISH 26 GAUGE SS (0.018 THICK) (REF. DART SPEC. M304S26GA)
- 2) FINISH: ELECTRO CHEMICALLY POLISH.



### NOTES:

- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.010

FAX 1 847 585 2500

CORUS ALUMINIUM

Corus Alumin  
Walzprodukte G.  
100331 D-56033 Koblenz



# INSPECTION CERTIFICATE (EN 10204/3.1) / TEST REPORT / APPROVED CERTIFICA

NO.: 0879231 SERIAL-NO.: PAGE: 2 / 03  
 PURCHASER: CORUS ALUMINIUM ROLLED ORDER NO. PURCH.: US-AIRCR. DEPOT-PRO  
 PRODUCTS USA-A DIVIS ORDER NO. MAN.: 83418  
 SCHAUMBURG, IL 60173 SPEC.: AMS4041+B209+QQ250/5  
 CUSTOMER PART NO.:  
 ITEM: 01 LOT: 102973 ALLOY/TEMPER: 2024 T3 ALCLAD 1230 PRODUCT: PLA  
 QUANTITY: 344 DIMENSIONS: 0.040 x 48.00 x 144.00 INS

## Other tests:

Dimensional check: OK  
 Surface control: OK

## Normative references:

BESTELLNORM/SPECIFICATION/NORME  
 AMS 4041P+ASTM B 209-04+AMS-QQ-A-250/5A SEP1998

## Bend test:

L-direction

LT-direction OK

ST-direction

18 G.  
Koblenz



corus

CERTIFICATE (EN 10204/3.1) / TEST REPORT / APPROVED CERTIFICATE  
=====

SERIAL-NO.:  
CORUS ALUMINIUM ROLLED  
PRODUCTS USA-A DIVIS  
CHAUMBURG, IL 60173

ORDER NO. PURCH.: US-AIRCR. DEPOT-PRO  
ORDER NO. MAN.: 83415  
SPEC.: AMS4041+B209+Q0250/5  
CUSTOMER PART NO.:

PAGE: 3 / 03

THAT THE WHOLE OF THE SUPPLIES DETAILED HEREON HAVE BEEN  
TESTED AND, UNLESS OTHERWISE STATED ABOVE, CONFORM IN ALL  
WITH THE REQUIREMENTS OF THE SPECIFICATION, CONTRACT OR ORDER.

res:

in 2, the 28.08.05 SW

G. Mettler  
Quality Assurance  
Corus Aluminium  
Walzprodukte GmbH  
Koblenz

FROM: MAR-23-2006 04:24

TO: 6049464153

CORUS ALUMINIUM

P/N 062310 POW2335

Corus Aluminium-Walzprodukte G.m.b.H.  
Postfach 100331 : D-58033 Koblentz

corus

## INSPECTION CERTIFICATE (EN 10204/3.1) / TEST REPORT / APPROVED CERTIFICATE

NO.: 0879231 SERIAL-NO.: ORDER NO. PURCH.: US-AIRCR.DEFOT-PRO  
 PURCHASER: CORUS ALUMINIUM ROLLED ORDER NO. MAN.: 83419  
 PRODUCTS USA-A DIVIS SPEC.: AMS4041+B209+GQ2S0/5  
 SCHAUMBURG, IL 60173 CUSTOMER PART NO.:  
 ITEM: 01 LOT: 102973 ALLOY/TEMPER: 2024 T3 ALCLAD 1230 PRODUCT: PLA  
 QUANTITY: 344 DIMENSIONS: 0.040 X 48.00 X 144.00 INS

PAGE: 1 / 03

## RESULTS:

## Mechanical properties:

	Spec: No.	Y.S.	U.T.S.	El.
		KSI	KSI	%
Min. LT:	39,0	59,0	59,0	15,0
Max. LT:				
001	40,6	59,6	59,6	17,9
002	40,6	59,8	59,8	18,7
003	40,8	59,8	59,8	17,7
004	40,8	59,6	59,6	18,1

## Chemical composition: in %, remainder Al

ALLOY: CAST-NO.	ALLOY CORE	ALLOY LINER	ALLOY LINER
SI	2024	1230 4	1230 4
Fe	5-05-2914	142166-1	142166-1
Cu	0,028	0,12	0,12
Mn	0,123	0,26	0,26
Mg	4,525	0,002	0,002
Cr	0,634	0,010	0,010
Zn	1,436	0,003	0,003
Ti	0,100	0,001	0,001
B	0,110	0,005	0,005
Zr	0,278	0,019	0,019
Pb	0,000	0,002	0,002
IN	0,000	0,001	0,001